Day 1 Sequences and Series Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Per \_\_\_\_

1-4, Find the first 5 terms of the sequence.

1. 2. 3. 4.

5-8, Determine if the following sequences are arithmetic, geometric, or neither. Then write the rule.

5. 6,10,14,18… 6. 1,-2,4,-8,16… 7. … 8. -7,4,15,26,…

9. The first two terms of an arithmetic sequence are 2 and 8. What is the 10th term?

10. A geometric sequence begins 2,6,… What is ?

11. The first row of seating in section J of the Athena Arena has 7 seats. In all, there are 25 rows of seats in section J, each row containing 2 more seats than the row preceding it. How many seats are in section J?

12. Pat designs a patio with a trapezoid-shaped deck consisting of 16 rows of congruent slate tile. The numbers of tiles in the rows form an arithmetic sequence. The first row contains 15 tiles and the last row contains 30 tiles. How many tiles are used in the deck?